

Aircraft: TOI DHC-6 N821AR

Flight number: 3

Payload Configuration: WISM

New Data Collected: yes

Total Flight Time: 0.7 hours

Submitted By: Paul Racette

From: GJT **To:** GJT

Start: 2/05/17 16:50 MST **Finish:** 2/05/17 17:30 MST

Flight Time: 0.7 hours

Log Number:

PI: Tim Durham

Funding Source: Parminder Ghuman - NASA - SMD - ESD ESTO - IIP Program Manager

Purpose of Flight: Science

Comments: Tri-band radar test flight around the airport. On flight 2 one of the radar computers failed to boot. Upon landing the issue was resolved and so this third flight was conducted to test that all six radar channels are working. Radiometer collected data but was not connected to the antenna to minimize potential impact on radar data collects.

Accomplishments

- Flew multiple loops around airport passing over the radar calibration target

Instrument	Operated	Data Volume	Instrument Issues/Comments
WISM-Radar	yes	450 GByte	No anomalies reported
WISM-Radiometer	yes	4.3 GByte	Was not connected to antenna

Flight Report: Third flight for the WISM instrument of this campaign. Flight was conducted around the Grand Junction airport. Tim Durham, Kerry Speed and Quenton Bonds flew. Pilots were Thomas Sommerville and Ross Rice. Sky was mostly clear with scattered clouds. The aircraft flew multiple loops around the airport at an altitude of 5000 ft on a track that placed the projected antenna pattern directly over four, in-line calibration targets located in a field adjacent to the aircraft hanger.